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APPLICATION NO. FILING DATE		FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO	
09/834,410 04/12/2001		Toyohiro Sawada	019941-000510US 3651		
20350	7590 06/20/2006		EXAMINER		
	D AND TOWNSEN: RCADERO CENTER	YOUNG, MICAH PAUL			
EIGHTH FLO			ART UNIT	PAPER NUMBER	
SAN FRANC	CISCO, CA 94111-38	1618			

DATE MAILED: 06/20/2006

Please find below and/or attached an Office communication concerning this application or proceeding.

	•		Application No.	Applicant(s)				
		09/834,410	SAWADA ET AL.					
Office Action Summary			Examiner	Art Unit	<u> </u>			
			Micah-Paul Young	1618				
	The MAILING DATE of this commu	nication app			ldress			
Period fo	or Reply							
WHIC - Exter after - If NC - Failu Any	ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINISTRY OF THE PROPERTY OF THE PROPER	MAILING DA s of 37 CFR 1.13 munication. statutory period w y will, by statute,	ATE OF THIS COMMUNICATION 6(a). In no event, however, may a reply be timil apply and will expire SIX (6) MONTHS from cause the application to become ABANDONE	N. nely filed the mailing date of this c D (35 U.S.C. § 133).				
Status								
1)⊠	Responsive to communication(s) file	ed on <i>27 Ma</i>	arch 2006.					
			action is non-final.					
3)								
<i>,</i> —	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims							
4)⊠	⊠ Claim(s) <u>1,3-8 and 10-27</u> is/are pending in the application.							
_	4a) Of the above claim(s) is/are withdrawn from consideration.							
	Claim(s) is/are allowed.							
6)⊠	Claim(s) <u>1,3-8 and 10-27</u> is/are rejected.							
7)								
8)[	Claim(s) are subject to restrict	ction and/or	election requirement.					
Applicati	on Papers							
9)[	The specification is objected to by th	ne Examiner	•					
10)[	10) The drawing(s) filed on is/are: a) accepted or b) objected to by the Examiner.							
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
	Replacement drawing sheet(s) including	g the correction	on is required if the drawing(s) is obj	ected to. See 37 Cl	FR 1.121(d).			
11)	The oath or declaration is objected t	o by the Exa	aminer. Note the attached Office	Action or form P1	ΓO-152.			
Priority u	ınder 35 U.S.C. § 119							
_	Acknowledgment is made of a claim ☐ All b)☐ Some * c)☐ None of:	for foreign	oriority under 35 U.S.C. § 119(a)	-(d) or (f).				
	1. Certified copies of the priority documents have been received.							
	2. Certified copies of the priority		• •	<u></u>				
	3. Copies of the certified copies			ed in this National	Stage			
	application from the Internation		• • • • • • • • • • • • • • • • • • • •					
* S	ee the attached detailed Office action	on for a list c	of the certified copies not receive	d.				
Attachment	` `		, <b>–</b>	(070.4/5)				
	e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (F	PTO-948)	4)  Interview Summary Paper No(s)/Mail Da					
3) 🔲 Infom	nation Disclosure Statement(s) (PTO-1449 or No(s)/Mail Date		5) Notice of Informal Page 6) Other:		D-152)			

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#### **DETAILED ACTION**

## Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on 3/27/06 has been entered.

# Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1,3,4,7,8,11,12,14-19,24 and 27 are rejected under 35 U.S.C. 102(b) as being anticipated by Chen et al (USPN 5,922,352 hereafter '352). The claims are drawn to a compression-coated tablet comprising a coating and a core tablet. The core tablet comprises an erodible filler, while the coating comprises a hydrogel-forming polymer and a hydrophilic base material.
- 4. The '352 patent teaches a compression-coated tablet comprising a distinct core and coating (abstract). The core comprises fillers such as lactose or sucrose (col. 3, lin. 18-21, examples). The coating comprises hydrophilic bases such as lactose and hydrogel-forming such as polyethylene oxide having a weight average of 100,000 to 6,000,000 (col. 3, lin. 30-35). The fillers are present in amounts 90%-70%, the drug is present while the hydrogel-forming polymer

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is present 90%-50% and the hydrophilic base is present 10%-20% (col. 4, lin. 45-67). The drug is present in a concentration less than 75% of the total weight (example). The core is also enterically coated meaning the release is within the lower digestive tract (examples). Drugs useful for the compression-coated tablet of the reference include nifedipine, nicardipine, verapamil and diltiazem all drugs that are metabolized by and/or inhibit the metabolism of cytochrome P enzymes (col., 4, lin. 5-10). Regarding the percentage erosion of the filler, it is the position of the Examiner that this percentage would b inherent to any filler meeting the limitations of the claims. Sucrose and lactose are named in the specification as capable and useful fillers, thus these filler, present in the prior art would act identically and erode to the given percentage. Applicant is invited to provide evidence as to how the sucrose of the instant claims would behave differently than the sucrose of the prior art. Further no temporal data is given regarding when or where the eroding takes place. Any filler will erode 40-90% given enough time in the digestive tract, regardless of coating and presentation.

5. Regarding the claim reciting the determination of the eroding percentage, it is the position of the Examiner that the limitations render the claim a product by process claim. The claim is drawn to a tablet, yet recited methods of determination. Applicant is reminded that regarding product-by-process claims, even though product-by-process claims are limited by and defined by the process, determination of patentability is based on the product itself. The patentability of a product does not depend on its method of production. If the product in the product-by-process claim is the same as or obvious from a product of the prior art, the claim is unpatentable even though the prior product was made by a different process." *In re Thorpe*, 777 F.2d 695, 698, 227 USPQ 964, 966 (Fed. Cir. 1985)

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6. With these things in mind, the disclosures render the claims anticipated.

#### Claim Rejections - 35 USC § 103

- 7. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
  - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 8. The factual inquiries set forth in *Graham* v. *John Deere Co.*, 383 U.S. 1, 148 USPQ 459 (1966), that are applied for establishing a background for determining obviousness under 35 U.S.C. 103(a) are summarized as follows:
  - 1. Determining the scope and contents of the prior art.
  - 2. Ascertaining the differences between the prior art and the claims at issue.
  - 3. Resolving the level of ordinary skill in the pertinent art.
  - 4. Considering objective evidence present in the application indicating obviousness or nonobviousness.
- 9. Claims 5,6,10,13,21,22,23 and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined disclosures of Chen et al (USPN 5,922,352 hereafter '352). The claims are drawn to a compression-coated tablet comprising a coating and a core tablet. The core tablet comprises an erodible filler, while the coating comprises a hydrogel-forming polymer and a hydrophilic base material.
- 10. As discussed above the '352 patent discloses a compression-coated tablet comprising a distinct core and coating structure, where the coating comprising a hydrogel-forming polymer, and a hydrophilic base, where the core comprises a filler. The '352 patent, while disclosing

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various erodible fillers, does not disclose each of the recited fillers of the instant claims.

However these fillers are common in the art and easily substitutable as seen in the '045 patent.

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11. The '045 reference teaches a compression molded oral formulation comprising a core comprising a drug (pg. 3, lin. 1-29), along with solubilizers that help improve the solubility of the drug in water such as citric acid, tartaric acid, and polyethylene glycol (pg 3, lin. 30-43). The core is coated with a hydrogel formulation comprising a hydrophilic base such as polyethylene glycols (pg. 3, lin. 49-pg. 4, lin. 7) and hydrogel-forming polymers with viscosities not less than 1000 cps in 1% aqueous solution such as polyethylene oxides (pg. 4, lin. 8-51). The formulation can include hydrogel-forming polymers in the core such as hydroxypropylmethylcellulose (pg. 3, lin. 37). The formulation further includes yellow iron sesquioxide (pg. 13, lin. 10-15). The drugs include lidocaine, nicardipine, and quindine, agents that are all metabolized by CYP3A4 (pg. 3, lin. 5-25). Upon administration, water is absorbed into the core of the formulation during its stay in the upper intestine, essentially dissolving the core and releasing the drug slowly as it travels to the colon (pg 2, lin. 35-40). The drug is present in the formulation in concentrations from 80-85%, the hydrophilic base is present in concentration from 5-80%, the hydrogel-forming polymer is present in concentration greater than 16% and solubilizing agent that aids in water absorption into the core is present in concentrations from 15-90% (pg. 3 lin. 25-pg. 5, lin. 13). The formulation remains within the digestive tract for up to 12 hours and within that time the formulation dissolves 70-100% (figures). The reference establishes the level of skill in the art regarding specific fillers and their relation to compression coatings and hydrogel-forming compression tablets. The artisan of ordinary skill would have been able to include the fillers of the '045 reference into the '352 since both formulation disclose similar formulations.

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12. With these things in min it would have been obvious to follow the suggestions of the prior art in order to provide an improved control-release formulation. The coating and core arrangement of the '352 reference would have provided improved and more controllable release of the active agents. The fillers and other excipients of the '045 reference would have provided the stability and protection needed for the dosage form. It would have been obvious to follow the teachings and suggestions of the art with an expected result of once a day tablet useful for treating various disorders.

- 13. Claims 20 and 26 are rejected under 35 U.S.C. 103(a) as being unpatentable over the combined disclosures of Chen et al (USPN 5,922,352 hereafter '352) and Taniguchi et al (EP 0 709 386 hereafter '386). The claims are drawn to a timed-release composition comprising a core and a coating where the core comprises fused benzazepine derivative.
- 14. As discussed above the '352 reference discloses a timed-release composition with a core and coating. The drugs listed by the '352 can be metabolized by CYP3A4 and cytochrome P-450. However the reference does not disclose the specific benzazepine derivative of the instant claims.
- 15. The '386 patent discloses a fused benzazepine derivative, which can be useful as a vasopressin antagonist. The drug can be formulated into tablets using conventional excipients such as sucrose, gelatin and hydroxypropylcellulose (pg. 27, lin. 23 37). The drug of the invention can be used in the treatment of various disorders ranging from cerebrovascular disease to renal disorders (pg. 23, lin. 24 44). A skilled artisan would be able to include the compound

of '386 into the formulation of '352 since the '352 reference uses similar drugs to treat similar disorders.

16. With these things in mind one of ordinary skill in the art would have been motivated to combine the '386 with the formulation of '352 in order to impart improved treatment of vascular and renal disorders. It would have been obvious to a skilled artisan to combine the suggestions and teachings of the prior art with an expected result of a timed-release formulation with limited drug interaction and improved vascular and renal disorder treatment properties.

# Response to Arguments

17. Applicant's arguments with respect to claims 1,3-8,10-27 have been considered but are most in view of the new ground(s) of rejection.

## Correspondence

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Micah-Paul Young whose telephone number is 571-272-0608. The examiner can normally be reached on M-F 7:00-4:30 every other Monday off.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Michael Hartley can be reached on 571-272-0616. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

Micah-Paul Young Examiner Art Unit 1618

MP Young

SREENI PADMANABHAN SUPERVISORY PATENT EXAMINER